



Specification  
LM195  
LED Light Meter



All specified accuracies are at 25°C ±1°C, <80% R.H. for 1 year  
Temperature coefficient: 0.1 x (specified accuracy) per °C  
(0-24°C, 26-40°C)

Accuracy: ±3% rdg ±5 dgts (Standard A light source) <sup>Note 1</sup>  
±8% (other visible light sources)

Spectral response: CIE photopic <sup>Note 2</sup>

Range: 0.0 to 199.9/1999/19990/199900 lx  
0.00 to 19.99/199.9/1999/19990 fc

Resolution: 0.1lx, 0.01fc

Angle deviation from cosine characteristics error:

10° ± 1%    30° ± 2%

60° ± 5%    80° ± 20%

Light detector: Si photodiode

Note 1: The CIE standard illuminant A can be realized by means  
of CIE standard source A, which is defined as: A gas-filled  
tungsten-filament lamp operating at a correlated colour  
temperature of 2856K.

Note 2: The CIE photopic curve is an international standard for the  
colour response of the average human eye.



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**PRESET LIGHT SOURCE WEIGHTING**

Preset Light Source Weighting:

L0: Standard Incandescent Light Source

L1: LED White Daylight

L2: LED Amber (Yellow) Light

L3: LED Green Light

L4: LED Red Light

L5: LED Blue Light

L6: Warm White Fluorescent Lamp

L7: Cold White Fluorescent Lamp

L8: User Setup Mode

**GENERAL**

Display: liquid crystal display

Sampling rate: twice per second

Over range: OL is displayed

Power: 2 x 1.5V AA alkaline batteries (IEC LR6, NEDA 15A)

Continuous operating time: approximately 80 hours

Auto power off: after 30 minutes (can be disabled)

Dimensions: 169 (L) x 63 (W) x 37mm (H)

Weight: 185g including batteries

Includes: storage case, 2 x 1.5V AA batteries and instruction manual.

**ENVIRONMENTAL**

Temperature & Humidity (Operating): 0°C to 40°C ≤ 80% R.H.

(Storage): -10°C to 50°C ≤ 70% R.H. with  
batteries removed

Altitude: up to 2000m

Pollution degree: 2

**EMC:** Conforms to BS EN 61326-1

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Martindale Electric Company Limited  
Tel: +44(0)1923 441717 Fax: +44 (0)1923 446900  
E-mail: sales@martindale-electric.co.uk  
Website: www.martindale-electric.co.uk

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